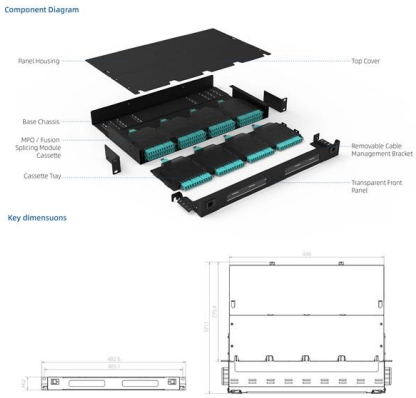
FRINDEL OPTICS

How to reduce the bit error rate of OFDM

Overview

For this, numerous techniques are proposed to beat the PAPR problem like i) Selective mapping (SLM) ii) Partial transmit sequence (PTS), iii) Clipping, iv) Clipping and filtering. Current technological objectives for OFDM focus primarily on optimizing bit error rate (BER) performance, particularly in high-data-rate applications where transmission reliability directly impacts user experience. However, one amongst the foremost drawbacks of the OFDM system is that the high-peak-to-average power ratio (PAPR) that leads the system to provide in-band distortion and out-of-band radiation and reduces its efficiency. OFDM can be implemented easily, it is spectrally efficient and can provide high data rates with sufficient robustness to channel imperfections. Abstract-In this paper we present an analytical approach to evaluate the bit error rate (BER) of OFDM systems subject to carrier frequency offset (CFO) and channel estimation error in Rayleigh flat fading as well as in time and frequency selective fading channels.

How to reduce the bit error rate of OFDM



A Generalized Bit Error Rate Evaluation for Index Modulation Based OFDM

Abstract: Orthogonal frequency division multiplexing (OFDM-IM) is a multicarrier transmission technology that modulates information bits not just onto subcarriers by means of M-ary

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Bit Error Rate Analysis of OFDM

Although OFDM, orthogonal frequency division multiplexing is more complicated than earlier forms of signal format, it provides some distinct advantages in terms of data transmission, especially where

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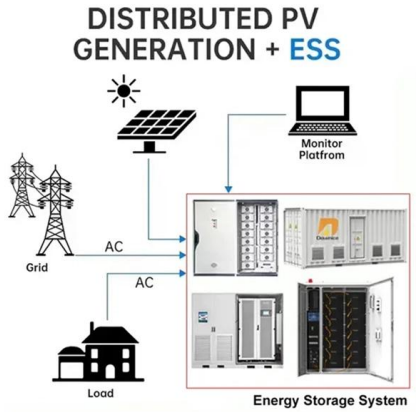

P-LDPC coded image transmission with OFDM over

introduced by the underwater c hannel. Keywords: Channel coding, P-LDPC, OFDM, underwater, polar code, bit error rate.

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Analysis of Bit Error Reduction Technique of MIMO

filtering approachsuccessfully reduces bit error rate. DPSS technique is an channel estimation based technique which is sed to give optimum BER performance of the OFDM System. DPSS (Discrete

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Optimum Value of Cyclic Prefix (CP) to Reduce Bit Error Rate (BER) in OFDM

A low-rate data stream modulates each orthogonal carrier in the OFDM system, which divides the spectrum into many of them. It will be possible to utilize the spectrum more efficiently than

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Discrete FBMC-based orthogonal time frequency space in wireless

Orthogonal Frequency Division Multiplexing (OFDM) as the standard multicarrier technique in 5G suffers from the out-of-band (OOB) leakage where using the filter-based multicarrier

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ESTIMATION OF BIT ERROR RATE IN OFDM SYSTEM OVER

Due to multipath, phase errors occur in the channel,which causes distorted result at the output of the receiver.Therefore, a need is raised to calculate BER due to phase errors using BPSK which has

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PAPR Reduction Techniques and their Bit Error Rate Measurement at OFDM

LTE also offers faster data rate transfer which in higher download and upload rate, When the rates is increase, it will also reduce the problem of lagging in internet connection. This system uses

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Papr Reduction And Bit Error Rate Evaluation In Ofdm System Using

Therefore, it's highly desirable to cut back the PAPR of an OFDM signal. For this, numerous techniques are proposed to beat the PAPR problem like i) Selective mapping (SLM) ii) Partial transmit sequence

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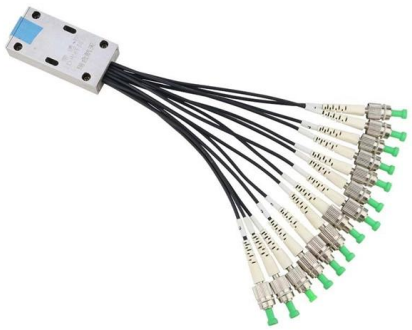

Bit error rate of OFDM system , Download Scientific

The probability of bit errors p b on the receiver of the OFDM communication system depends on the set of SNR values on the active subcarriers.

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Bit Error Rate Analysis of OFDM

Tools are provided for bit error rate analysis, generating eye and constellation diagrams, and visualizing channel characteristics. The system toolbox also provides adaptive algorithms that let you model

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Improving bit error rate under burst noise in OFDM power line

If the noise level is high then a single impulse will be able to cause errors in all carriers of an OFDM symbol, having shorter symbols means less carriers and lower errors.

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Analysis and Performance of DWPT-OFDM and Sliding Window

In this work, Discrete Wavelet Packet Transform (DWPT) has been studied extensively, and a new structure for DWPT-OFDM that is based on FFT and Sliding Window is proposed, a new scheme,

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Improving bit error rate in optical wireless OFDM systems through

To mitigate these shortcomings, in this paper, a hybrid scheme is proposed that combines nonlinear companding techniques (NCT) with other precoding schemes--discrete cosine transform (DCT),

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Bit Error Rate for Physical-Layer Network Coding With M-QAM-OFDM

In this letter, we derive the closed-form analytical expressions for the exact Bit Error Rate (BER) of Physical Layer Network Coding (PNC) systems considering M-ary Quadrature Amplitude Modulation

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PAPR Reduction Techniques and Their BIT Error Rate Measurement

Therefore, it is highly desirable to reduce the PAPR of an OFDM signal. For this, numerous techniques have been proposed to overcome the PAPR problem such as i) selective

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Comparative Study of Bit Error Rate with Channel Estimation in OFDM

This paper investigates the bit-error-rate (BER) performance of linear, spline and piecewise cubic Hermite interpolating polynomial (PCHIP) interpolation methods in LS channel estimation over the

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Bit Error Rate Performance of Clipped OFDM Signals Over

The clipping is the simplest PAPR reduction and of high commercial value . The method is done by setting a fixed threshold. When the OFDM signal amplitude is higher than the

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Optimizing OFDM Bit Error Rate in High-Data-Rate Applications

Various techniques can be employed to reduce bit error rates in OFDM systems. These include advanced signal processing algorithms, error correction coding, and adaptive modulation

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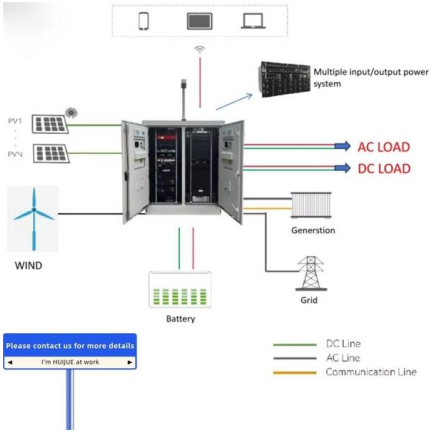

Bit Error Rate Calculation for OFDM with Synchronization Errors in

Abstract-In this paper we present an analytical approach to evaluate the bit error rate (BER) of OFDM systems subject to carrier frequency offset (CFO) and channel estimation error in Rayleigh flat fading

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A Generalized Bit Error Rate Evaluation for Index

Furthermore, OFDM index modulation (OFDM-IM) has been proposed in recent literature as a multi-carrier transmission scheme that modulates symbol

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Improving bit error rate in optical wireless OFDM systems through

To mitigate these shortcomings, in this paper, a hybrid scheme is proposed that combines nonlinear companding techniques (NCT) with other precoding schemes--discrete cosine transform

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Bit Error Rate Performance Analysis of

OFDM Using Matlab Simulation

The purpose of this paper is to use a Matlab simulation of OFDM to analyse the Bit Error Ratio (BER) of a transmission varies when Signal to Noise Ratio (S/N Ratio) and Multipropagation effects are

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Papr Reduction And Bit Error Rate Evaluation In Ofdm System Using

However, one amongst the foremost drawbacks of the OFDM system is that the high-peak-to-average power ratio (PAPR) that leads the system to provide in-band distortion and out-of-band radiation and

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OFDM-NOMA Error Rate Reduction Using Direct Data Detection

Therefore, the D3 would be particularly suitable for non-orthogonal multiple access (NOMA) because relaxing the dependence on the estimated CSI can improve the reliability of the detection process

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Bit Error Rate Calculation for OFDM with Synchronization Errors in

In this section the bit error rates of OFDM systems with car- rier frequency offset and channel estimation error in frequency selective fading channels are derived.

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What is orthogonal frequency-division multiplexing

Orthogonal frequency-division multiplexing (OFDM) is a method of data transmission where a single information stream is split among several closely

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Bit Error Rate Performance Analysis of OFDM Using Matlab Simulation

The main idea behind OFDM is the so called Multi Carrier Modulation (MCM) transmission technique. MCM is the principle of transmitting data by dividing the input bit stream into several parallel bit

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